PROJECTION

LANTERN and CINEMATOGRAPH

WRENCH'S
MONTHLY BULLETIN

No. 6 October, 1906

ENTERED AT STATIONERS' HALL.

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SENSITIVE

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PROJECTION

LANTERN and CINEMATOGRAPH

Publis'ed by

JOHN WRENCH & SON.

50, Gray's Inn Road,
London, W.C.

ESTABLISHED 1816 TRADE MARK

Telephone 5006 Holborn.
Telegrams: "Optigraph London."

No. 6. OCTOBER, 1906. Gratis, Exclusive Trade Circulation

The Awakening.

AFTER a lethargic period extending over six months, the trade is now beginning to wake up in real earnest. Lanternists and cinematographers are already booking dates for the coming winter evenings, and societies of every description are getting into harness again, for winter is essentially the time for study and the education of the mind.

The dealer in lanterns and accessories knows this, and takes advantage of the opportunities offered; but as there are many dealers in photographic requisites who do not make a feature of a winter trade, we would, in all respectfulness, recommend to their notice a side line which is at once remunerative and fascinating.

Remunerative, for the makers allow a good discount, and there is very little time lost in making sales.

Fascinating, for the lantern and cinematograph act as an illustrated guide to topical events, and there is always something new. And who is there, even in these prosaic days, who is not captivated with illustrations, however made.

In addition, the hire of slides may be added to the business as well as that of exhibiting, but whilst the fees secured for the latter are not what they were years ago, there is still more in it than at first meets the eye.

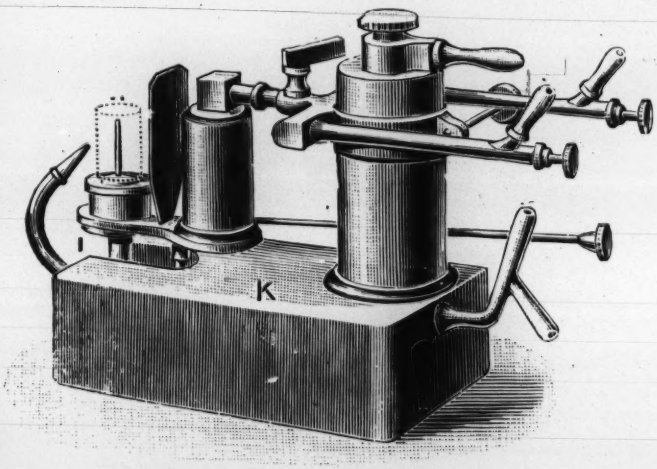
THE

Lawson "Excelsior" Saturator

1000 Candle Power

For BIUNIAL or SINGLE LANTERNS

Stocked by Dealers and used by Professionals the World over.



No Hissing or Roaring.

The Light is always under perfect control.

For SINGLE Lanterns.

For SIDE BY SIDE Lanterns.

For BIUNIAL Lanterns.

For CINEMATOGRAPHS.

Price of Saturator for Single Lanterns, as shown ...	**£4 0 0**
Price of Saturator with Powerful Jet for Second Lantern and Special Dissolver	**£6 10 0**
Screw Clamp Tray	**3 6**
Brass Filling Cup	**3 0**
Small (500 Candle Power) Saturator	**£2 10 0**

Makers also of the **"STANDARD"** *Hard Limes, the very best obtainable.*

LIBERAL TRADE DISCOUNTS.

Wholesale from

RILEY BROTHERS, Ltd.,

Dealers in all kinds of Lantern Goods.

55 & 57, GOODWIN STREET, BRADFORD.

And from this feast of good things, who can allow himself to be exempted?

If you are not quite *au fait* with the trade, we shall be pleased to do all in our power to assist you. And this free, gratis and for nothing, which is all that can be expected of us.

But, in conclusion, don't think that your orders won't receive attention because they are small, for we are sanguine enough to believe that they will grow as time goes on, and we therefore treat all alike.

* * *

A Superb Instrument.

We must confess that we feel a little proud (which we hope is pardonable) of our climax this season in cinematograph construction. The Model B Perfect Projector or P.P. Instrument is the outcome of very careful thought, by many minds, for a lengthened period, and it certainly supersedes anything of its kind which we have previously turned out from our workshops. To correctly gain a comprehensive idea of its possibilities and advantages, the machine must be seen, but, in the space at our disposal, we will sum up its leading features, so as to give our readers some faint idea of the scope of the instrument.

It seems almost needless to say at the outset that the mechanism throughout is constructed on our premises from the best material procurable, and that it is built on sound scientific and mechanical principles. It is fitted with four-picture sprockets, and no part is geared higher than 4 to 1, so that a smoothness in running and a steadiness is obtained, which is most pleasing. One turn of the handle gives a movement equivalent to eight pictures, and the handle itself is carried on a separate and long bearing, and not attached to the sprocket wheel. In this way the possibility of the latter getting out of truth is obviated, as it sometimes happens, especially after hard wear, when the driving is actuated direct from the sprocket spindle. The gearing of the "Dog" with the shutter spindle by a special arrangement of mitre wheels is such as to cause very little noise, even when the mechanism is being worked at an exceptionally high speed. The construction of the governor and automatic cut-off has been considerably improved over former models, not only making the latter very susceptible to the slightest turn of the handle, but also ensuring great strength in the former.

The lantern objective, as in the Model A instrument, is carried on a steel rod, and cinematograph objectives may be used of any focus from 2 ins. to 5 ins. This arrangement will be found

most convenient to exhibitors, for it enables the operator to use his instrument in the most convenient place in any size hall.

We have adapted a little device to the instrument which has hitherto only been fitted to the more expensive "Palace" mechanism. This is a safety chamber fitted to the door of the film trap, which is somewhat after the shape of a letter box. By this means it is impossible to burn any other part of the film except the single picture before the mask. We have deliberately tried over and over again to do so, even by holding a match to the film, but have always failed in the attempt.

The essence of the instrument, however, lies in the fact that there is complete centralisation of the optical parts, or in other words, the optical centre remains stationary when masking the film, and the latter moves. In this way there is no change in the position of the picture on the screen, which is not only a great advantage, but it assists in giving that theatrical precision to the show which every operator should emulate. It is not only distracting to see the picture first up and then down, but it makes the onlooker feel that there is something wanting, something which makes the whole thing fall just a little short of perfection. The arrangement for masking the film is in the form of a vulcanite roller, carried on a substantial brass bearing, actuated by a heavy rack and pinion, fitted with a large knurled head, and placed in such a position that it can be manipulated with the greatest ease. This improvement will, we feel sure, appeal to our friends and especially to the practical man.

One point we must not overlook, and that is we have not fitted ball bearings to the mechanism. We say this plainly and frankly, for we have tried them *thoroughly*, but find them unsatisfactory, and have come to the conclusion that, except as "fads" or as for advertising purposes, cinematographs are better without them. Why this is so it is a little difficult to explain without going into minute mechanical details, and illustrating the remarks with diagrams. We have thought it advisable to deliberately draw attention to this point, as there appears to be some misconception in certain quarters on this point of construction.

Possessing so many advantages, it might be thought that the mechanism would be exceptionally costly, but such is not the case. As a matter of fact, the price is £22.

Similar to the Model A Projector, the Model B mechanism can be adapted with sliding lantern body, sliding mechanism, double lantern body, or swing round, and as all the parts are interchangeable, the operator may have either a cheap or more expensive and elaborate body, and either large or small diameter lenses. As a

guide to the purchaser, we have, in our current catalogue, particularised four standard outfits, ranging in price from £28 9s. to £32, Fig. 1. As we anticipate a large demand for the Model B

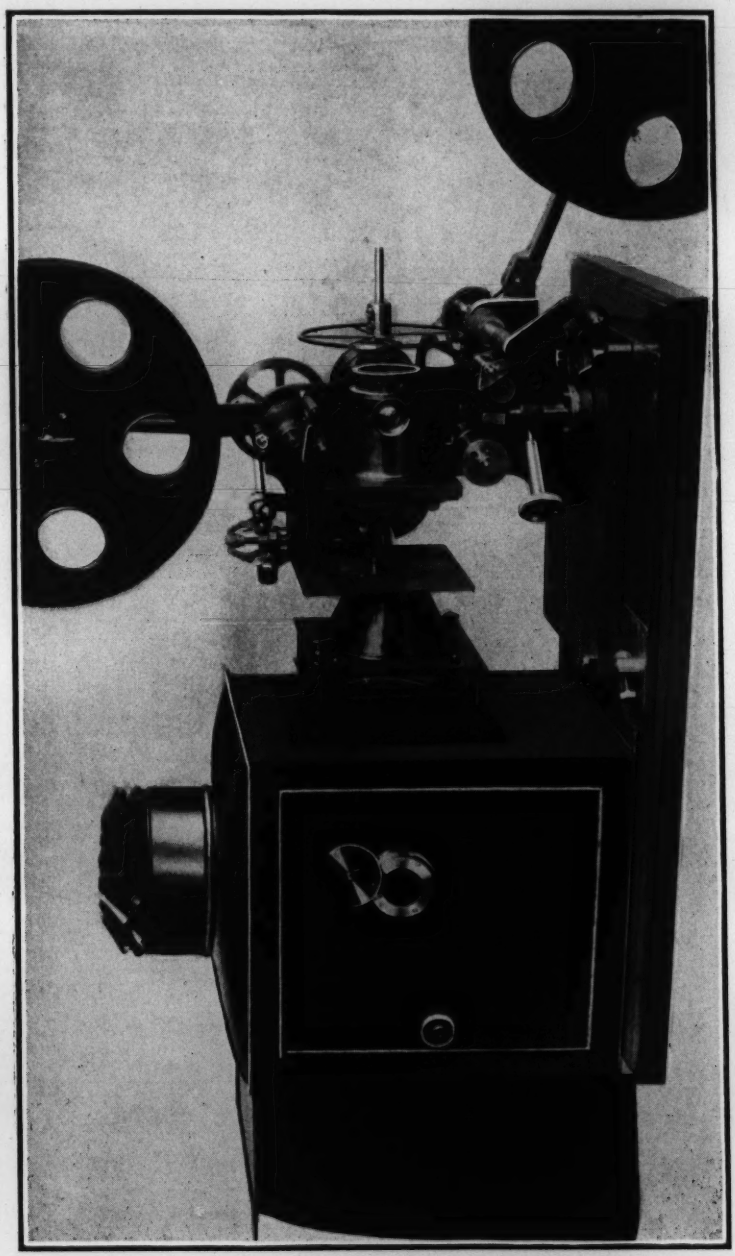


FIG. 1.

Perfect Projector, our readers would be well advised to place their requirements in good time, as all orders will be executed in strict rotation.

If you do not receive a copy of our complete Art Catalogue of Lanterns and Cinematographs, we shall be pleased to forward you one on receipt of application

IMPORTANT ANNOUNCEMENT

Having special facilities, with up-to-date workshops on the premises, we are now able to undertake

Camera and Photographic Apparatus REPAIRS

AT STRICTLY COMPETITIVE PRICES, TOGETHER WITH PROMPT DELIVERIES

Satisfaction Guaranteed!!
Only Competent Workmen Employed!!

We feel that the above announcement will be read with interest by many of our customers who handle photographic apparatus, for up to the present, no one seems to have made a feature of this important side of the trade, or to have opened a special department to cope with the work.

Send your repairs to us and they will be carefully attended to.

JOHN WRENCH & SON

Telephone: 5006 HOLBORN.

50 Gray's Inn Road
LONDON : : W.C.

Telegrams: "Optigraph LONDON."

A New Acetylene Generator.

It cannot be gainsaid that acetylene as an illuminant has proved very advantageous, especially in rural districts, and in consequence a number of generators have been placed on the market from time to time, some living but a short time, whilst others have met with a fair appreciation. We have designed a model, Fig. 2, which works on the same principle as a motor lamp, and is therefore not only absolutely safe, but thoroughly efficient. It is portable, a strong point in favour of all lantern requirements, and gives a steady light without any objectionable smell or mess.

It consists essentially of two chambers, neatly enamelled, the upper one being in the form of a domed water tank with a long needle valve passing down the centre, and worked by means of a milled head on the top. The water drips at regular intervals on to the carbide placed in the lower chamber, and this is surrounded by a water jacket, which not only keeps the apparatus cool, but is also utilised for purifying the gas before reaching the jet.

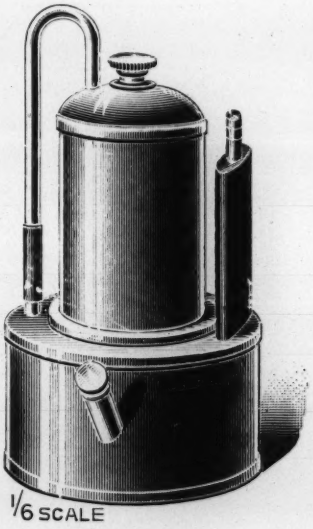


Fig. 2.

To name a few other advantages:— the residue is dry lime, and can therefore be emptied without trouble; the capacity is one pound of calcium carbide, which will be found sufficient for an evening's entertainment, and the height of the apparatus is but 11½ inches. At the retail price of 30/-, which is subject to a liberal discount, we anticipate a large sale of the "Wrench" Acetylene Generator. Instructions for working are sent out with each instrument.

* * *

Inverted Gas Lamp.

Since its introduction for lantern purposes, the incandescent gas light has met with a wide popularity, especially for home use. This is not to be wondered at, for it is both cleanly and handy, and may be fitted up without trouble in a few minutes. Moreover, it gives for the above purpose, a fair result, and its only disadvantage appears to be the fragility of the mantles. This disadvantage we have now overcome, so far as it can be overcome, by adapting the inverted mantles to lantern projection, Fig. 3. As is well-known, in this type of illuminant the mantle is supported all along the open

edge, and in addition it gives a better light, for which we can vouch after a number of very careful experiments.

The light is for one thing more condensed, and therefore approximates more nearly to the perfect illuminant, and there is no reflected texture of the mantle on the screen, as is the case with the upright form. The illustration gives a very graphic idea of the

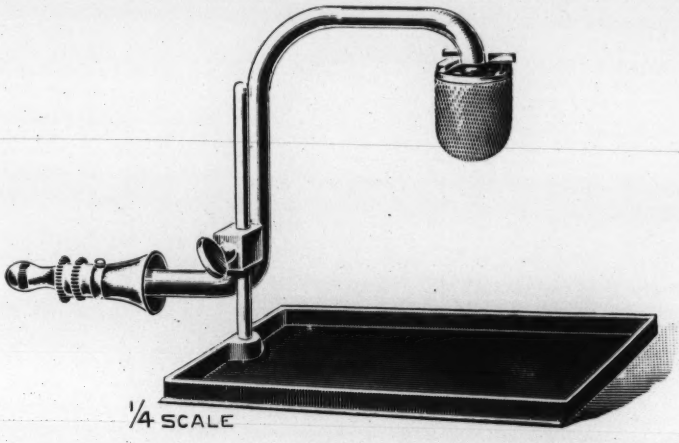


FIG. 3.

article itself, the curved brass jet being fitted with an air regulator, and supported on a cast iron tray. The price of the jet and mantle is 7s. 6d., whilst the tray with brass upright is 2s. 3d. and extra mantles are 1s. 0d. each.

* * *

"Kamm" Specialities.

The products of Messrs. L. Kamm & Co., are always to be relied upon, and whatever the firm places in the market it is always workable, and finished in such an attractive way that it meets with a ready sale. We have only to mention the "Kamm" Oxygen Generator, the "Kamm" Acetylene Lamps, and the "Kamm" Ether Saturator to convince our readers of the truth of this remark. The former is a piece of scientific apparatus adapted so that it may be worked by "the man in the street." It consists primarily of a retort and a container. Oxygen cakes are placed in the retort, and then are heated by being suspended over a methylated spirit lamp. The container is for holding the gas as well as the water necessary for its purification, the necessary pressure being supplied by strong springs on the four metal uprights, as shown in the illustration on p. 50. The generator is quite automatic in its action, as the supply of oxygen increases in the container, the generation ceases until a portion has been used, and so it goes on throughout the show. If the instrument is required for a long time, a fresh retort filled with cakes can be replaced without causing any interval. In conjunction with the "Kamm" Ether Saturator, an exhibitor,

even in the most remote districts has in his power the means of securing a perfect and powerful illuminant, suitable either for the lantern or the cinematograph. The above may be obtained direct from the manufacturers, or from ourselves at the same prices.

* * *

Ether Saturators.

The attention of our readers is drawn to the "Lawson" Ether Saturators, the cheaper model being shown in Fig. 4, and the more expensive one, namely, the "Excelsior" being advertised and illustrated on p. 42. These saturators have been before the public for many years and have withstood the test of time. If they were not satisfactory they would not have had the life they have, and to-day they are selling better than ever before in their history. One has not to look very far for the reason of this; they are as perfect as such instruments can be, and are thoroughly practical. They make lantern and cinematograph work possible in foreign countries and remote inland districts where the absence of coal gas formerly prohibited it. Oxygen and limes only are required as the jet forms part of the instrument.

The "Excelsior" saturator retails at £4, and gives a light of 1000 c.p.; the ordinary pattern, Fig. 4, retails at 50s. and gives a light of 500 c.p. Both work with wonderful smoothness, and some idea of the popularity of the apparatus may be gained when we state that some dealers buy them in lots of fifty at a time. Every dealer should keep both patterns in stock; they may be purchased either from ourselves or from the manufacturers, Messrs. Riley Bros., Ltd. of Bradford, Yorkshire.

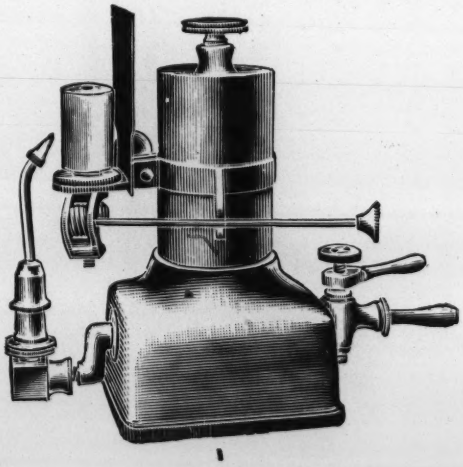
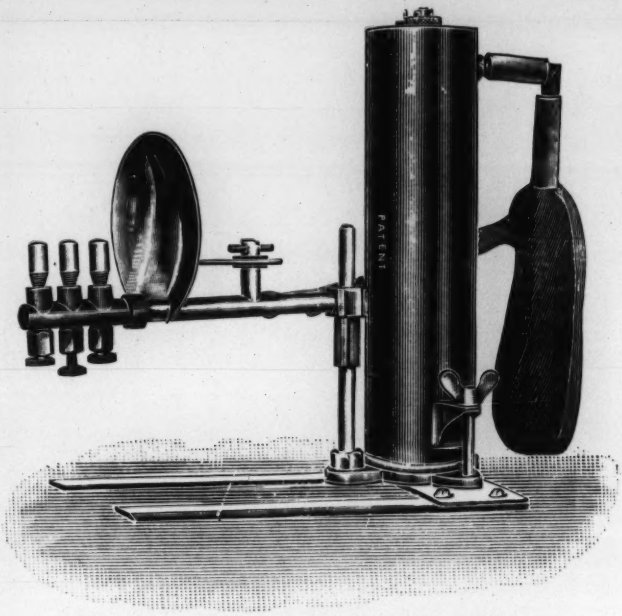


FIG. 4.

* * *

Lantern Slides.

The numerous sets of lantern slides made and published by Mr. P. H. Fincham, of Myton Road, West Dulwich, London, S.E., are well worthy of notice by our friends in the trade. They are of the first quality, Mr. Fincham having always made a speciality of well-thought-out and comprehensive lecture sets, studying the district, and then going over the ground, and taking the negatives with the special and only object for the production of lantern slides.



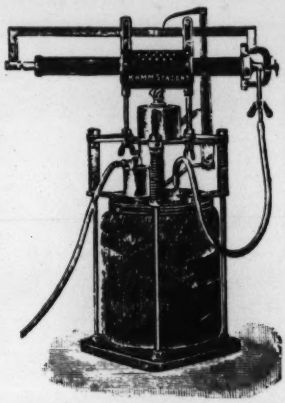
Kama Safety Acetylene Generator

(PATENT).

Neat. Compact. Safe. Can be turned on side without danger. Economical.

No. 1, **30/-**, takes 7 ounces Carbide, and lasts 1½ hours.
No. 2, **40/-**, one charge lasts 3 hours.

"Kamm's" Patent Oxygen Generator.



Is the greatest boon to travelling Cinematographers, and produces a light as powerful as an electric lamp of 2,000 c.p. It weighs only 25 lbs., or with box 40 lbs; 24 lbs. fuel lasts 10 hours, and is obtainable anywhere. Simple construction. Absolutely free from dauger.

Kama Electric Projecting Lamps.

Specially constructed for projecting and enlarging. Strongly made, highly nickel-plated & polished. Always ready. For all Voltages.

No. 1, **18/-** 35-60 c.p.
No. 2, **30/-** 300-500 c.p.
No. 3, **45/-** 500-1,000 c.p.

The candle power is according to voltage. State voltage when ordering.

L. KAMM & CO.

Scientific Engineers

27, POWELL ST., LONDON, E.C.

In addition, great care is given to the readings, not only to make the sets attractive, but instructive. Mr. Fincham is one of the oldest slide makers in the country, and the wet collodion process, as used by him, leaves nothing to be desired. All the slides mentioned on p. 54 may be obtained direct, or through ourselves, and those of our readers who have not hitherto kept this make in stock are strongly advised for many reasons to do so.

Some Cinematograph Troubles:

Their Cause and Remedy.

IT should ever be remembered that a cinematograph is a complex piece of mechanism, which requires careful handling. Running as it does at a very high speed, some parts must assuredly wear out in time, and especially is this the case with those instruments that are running night after night without cessation. Do not let us be misunderstood in this matter: a well-made cinematograph has a long life before it, and pays for itself many times, if carefully used, before it requires overhauling, but there are some showmen who seem to think that their instruments should last for ever, and it is to such that our remarks apply. It is rather disheartening to the manufacturer to hear complaints about a machine after it has been running almost incessantly for years, for he knows that it is impossible for any mechanism of a similar kind to last for ever.

Another disadvantage that the mechanism has often to contend with is the continual jar caused by transit from one place to another, with the result that it sometimes happens that parts require a little adjustment. It is for this reason that we have thought it advisable to give some of the troubles generally met with, together with their cause and remedy.

If the film is not running centrally in the gate, but is wearing the brass guides on one side or the other, it shows either that the springs in the gate have not an equal pressure, or that the gate itself is not in alignment. The remedy is, of course, to equalise the tension on the springs in the former case, or to set the gate true with the sprocket wheels in the latter.

If, after running a number of times, the perforations in the film are found to be broken on one edge, it proves that the "Dog" or

"Dog" roller is out of truth, and is striking the film unevenly. The remedy is to adjust the one or the other so that it will strike accurately.

Mechanism hard to turn. Sometimes it happens that the machine gradually gets harder to turn, in which case the bearings are becoming hot through usage. All the running parts should be well oiled, but only with the special lubricating oil supplied for the purpose.

Pictures not so steady There are many reasons why the pictures may not be as steady on the screen after some months' usage as at first. We give several causes below, each of which suggests its own remedy. (*a*) The springs in the gate may not have sufficient pressure on the film; (*b*) The "Dog" spindle or the bottom sprocket may have worn and become too loose in their bearings; (*c*) The pinion on the "Dog" spindle may have worn, and thus allows shake; (*d*) The teeth on the bottom driving wheel may have worn, and in consequence not be a true fit with the "Dog" pinion; (*e*) Dirt may have accumulated on the runners or springs. N.B.—In case of the wearing of the parts it is advisable to send the mechanism to the manufacturers to be thoroughly overhauled.

Ghost. Should ghost be seen on the screen, the shutter is either too small to cover the movement of the film, or it is not set correctly.

Film runs off top sprocket. This is caused either by the spool or guide roller not being in alignment with the sprocket wheel, or (*b*) the spring of the roller acting against the top sprocket is too weak, or (*c*) the film is badly perforated or shrunk through age. A simple remedy for the latter, if there are double rollers to the top sprocket, is to make a loop between the two rollers. This is generally sufficient to make an old film run correctly.

Take-up Spool not taking all the Film. If the take-up spool does not rewind all the film, it proves that the spring band has stretched, in which case a piece should be cut out and the band rejoined, or that the spring acting against the spool has become too weak, when a new bow spring should be obtained.

Disc not white. Should it be impossible to obtain a clear white disc on the screen, the condenser lenses are dirty, and must be cleaned with a piece of chamois leather or soft tissue paper.

Edges ragged. When the edges of the disc appear ragged on the screen, it is caused either by the accumulation of dust on the edges of the mask, or the latter may not be truly cut.

Picture alters ¼ to ½ Picture When the picture runs up on the screen and continually alters to quarter or half picture, the film is slipping on the bottom sprocket wheel, in which case the spring of the roller on the bottom sprocket must be tightened.

...breaks ...pin.

This may be caused either through the film being badly joined, or through too much tension on the gate springs. When joining films the emulsion of one end should be carefully scraped off, and only a little cement used. If too much cement is used it eats into the celluloid and tends to perish it.

... Spool ...ks in ...ts.

Sometimes this happens and is caused through the disc on the spring not being sufficiently well lubricated.

...ture un-...dy or film ...tched.

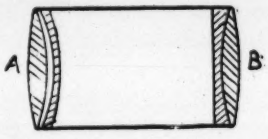
These difficulties are caused through dust on the runners or bow springs. These should be carefully scraped before each exhibition, and a *little* vaseline rubbed over them.

...chine un-...isfactory ...first.

If so, some damage has been done in transit, in which case the machine should be immediately returned to the makers, a pound's worth of damage may be done in a few minutes by the uninitiated, whereas the maker might adjust it without difficulty.

...finition of ...ective not ...d.

Should the objective after cleaning not give as good definition as before, it provs that the lenses have not been replaced accurately. They should be returned to the cells as shown in the accompanying diagram.



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THE
"WRENCH" Lanterns?

IF NOT, YOU ARE BEHIND THE TIMES!

There is Nothing like them, and Nothing "Just as Good." They are

UNIQUE!

Simply because they are constructed on sound principles, and are the outcome of years of experience. Made throughout in our own Workshops by competent labour, in a number of patterns, and at prices to suit all purses. They always meet with the most unqualified success, and

ONCE STOCKED ARE ALWAYS STOCKED

Patentees and Manufacturers:
JOHN WRENCH & SON
50, Grays Inn Rd., LONDON, W.C.

OPTICAL LANTERN SLIDES

If you require the Finest Lantern Slides that can be produced, purchase those made by

PHILLIP H. FINCHAM
Lantern Slide Specialist
Myton Road, West Dulwich
LONDON, : : S.E.

Send for Catalogue giving lists, among others, of the following Special sets, with Readings

Westminster Abbey, County of Sussex, County of Kent, The East Coast, The South Coast, Coast Scenery of Devon and Cornwall, English Lakes, North Wales, South Wales, Cornwall, Devon, English River Scenery, Old Abbeys and Castles, Scotch Coast, Scotch Highlands, Scotch Lakes, Edinburgh, etc., etc., etc.

Sights of Rome, Bay of Naples, Pompeii (past and present), London to Greece, Athens, Venice, Florence, Madeira and Spain, Norway, Sweden, Forest Cantons, Engadine, Germany, Rhine, Holland, Bridges, etc., etc., etc.

Special attention given to the production of Slides from customers own negatives.

All the above are made by the Wet Collodion process.

PHILLIP H. FINCHAM
Myton Road, West Dulwich : : London, S.E.

LANTERNS AND ACCESSORIES

"Wrench" Lanterns in Russian Iron.

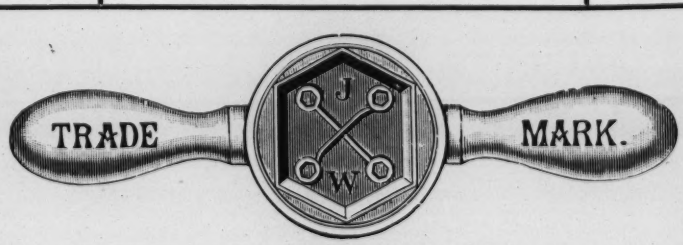
Lanterns with Improved Stage in Mahogany.

Biunials
Triunials
Science Lanterns
Enlarging Lanterns
'Wrench' Condensers
"Stocks-Wrench" Lamp.
Theatrical Boxes.
Lime Light Apparatus.
Incandescent Gas Lamps.
Acetylene Generators
Screens and Stands, Carriers, etc.

SEE that the following

TRADE MARK

is on every piece of apparatus,
without which
NONE ARE GENUINE



Cinematographs and Accessories

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Palace P Projectors
Arc Lamps
Resistance Frames
Tripod Stands

Cinematograph Cameras
Film Menders
Film Winders
Film Spool Winders
Objectives
Rack Mounts
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Guarantee of Quality and Workmanship

JOHN WRENCH & SON

50, Grays Inn Road,
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Telegrams: "Optigraph, London"

Two Useful Books.

FOR the convenience of those dealers who have just entered the lantern trade, we give below particulars of two books which have proved from experience to be most useful. It is very necessary to keep a careful account of lantern slides and cylinders sent out on hire, otherwise disappointments are sure to ensue, and perhaps legal difficulties. We remember a case where a well-known lecturer had engaged a set of slides for a particular evening, and when he sent for them, he was informed that they had not come in. This was simply through carelessness on the part of the assistant,

Lantern Slide or Film Register.

Date	Name	Address	Title of Slides or Film	No. L'gth	When Ret'nd	Charge			Paid or Ent'rd

and trusting to memory. He threatened the firm with legal proceedings and it was only after considerable expense that the slides were procured. Had the firm in question kept a register of some

Cylinder Register.

Date	Name	Address	No. of Cy-lind'r	Cap-acity	O or H	Key	Fit-tings	Reg'r or Ga'ge	Ret'd	Sent to Mak'r	Ret'd

sort this kind of thing would have been obviated together with its attendant worry and dissatisfaction. Any ruled book of foolscap size may be utilised for the purpose; but we repeat that something of the kind is absolutely essential to keep the wheels of the hiring department running smoothly.

Notes from all Sources

THE remarks which have been made to us about our new catalogue, are of so flattering a description that they have somewhat taken the edge off our hitherto unapproachable modesty. We must confess that we feel a little proud of our production now it has got out of the printers' hands. It has meant months of really hard work, and so far as we are aware no point has been overlooked in order to make it of *real* service to the trade. We have omitted everything in the nature of "hustle," and given instead a faithful description of the instruments, which, after all, is of more service to a dealer than pages of adjectives.

* * *

There may be some of our readers who will be interested to hear that a book on photographic optics, in Esperanto, has been published.

* * *

A series of four very practical articles by Mr. T. Kingham have been appearing in the pages of "Photography." The editor, in an introductory note, states "The articles open the door to a very fascinating branch of photography." Quite so! This is the kind of thing the lantern trade requires, in fact, it cannot have too much of it.

* * *

We hope our friends in the trade have not overlooked an item of news which we were able to get into the last issue just before going to press, namely, that we are now in a position to supply cinematograph films by all makers, in the same way as we supply lantern slides, *i.e.*, at usual trade terms.

* * *

Many of our customers will be interested in hearing that we now supply calico lantern screens, mounted on spring rollers and complete with laths at the following prices:—4 feet, 11/6, ; 5 feet, 14/- ; 6 feet, 18/6, ; 8 feet, 37/6. These will be found particularly useful for drawing-room use, being at once neat and effective. When wound up they present exactly the same appearance as a roller blind, and are therefore unobtrusive. We anticipate a large demand for these screens, especially amongst home lanternists, and for use in schools and other small halls. The above prices are subject to liberal trade discount.

Notes from all Sources

THE remarks which have been made to us about our new catalogue, are of so flattering a description that they have somewhat taken the edge off our hitherto unapproachable modesty. We must confess that we feel a little proud of our production now it has got out of the printers' hands. It has meant months of really hard work, and so far as we are aware no point has been overlooked in order to make it of *real* service to the trade. We have omitted everything in the nature of "hustle," and given instead a faithful description of the instruments, which, after all, is of more service to a dealer than pages of adjectives.

* * *

There may be some of our readers who will be interested to hear that a book on photographic optics, in Esperanto, has been published.

* * *

A series of four very practical articles by Mr. T. Kingham have been appearing in the pages of "Photography." The editor, in an introductory note, states "The articles open the door to a very fascinating branch of photography." Quite so! This is the kind of thing the lantern trade requires, in fact, it cannot have too much of it.

* * *

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